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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/307,357	05/07/1999	MICHAEL A. PESHKIN	98.609	4714
7590 08/03/2004		EXAMINER		
PILLSBURY WINTHROP			THOMPSON, JEWEL VERGIE	
INTELLECTU P.O. BOX 1050	IAL PROPERTY GROUP		ART UNIT	PAPER NUMBER
MCLEAN, VA			2855	

DATE MAILED: 08/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

1	Application No.	Applicant(s)			
	09/307,357	PESHKIN ET AL.	•		
Office Action Summary	Examiner	Art Unit			
	Jewel V Thompson	2855			
The MAILING DATE of this communication appeared for Reply			dress		
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	l136(a). In no event, however, may a replept within the statutory minimum of thirty (download) and will expire SIX (6) MONTHeate, cause the application to become ABAN	y be timely filed 30) days will be considered timely IS from the mailing date of this co			
Status					
1)⊠ Responsive to communication(s) filed on <u>04</u>	February 2004.				
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3) Since this application is in condition for allow closed in accordance with the practice under	•	•	merits is		
Disposition of Claims	,				
 4) Claim(s) 1-19 and 27 is/are pending in the ap 4a) Of the above claim(s) is/are withdr 5) Claim(s) 12-19 is/are allowed. 6) Claim(s) 1-6,11 and 27 is/are rejected. 7) Claim(s) 7-10 is/are objected to. 8) Claim(s) are subject to restriction and 	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examir	ner.				
10) The drawing(s) filed on is/are: a) ac	ccepted or b) objected to by	the Examiner.			
Applicant may not request that any objection to th	e drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre	· · · · · · · · · · · · · · · · · · ·		• •		
Priority under 35 U.S.C. § 119					
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents. 2. ☐ Certified copies of the priority documents. 3. ☐ Copies of the certified copies of the priority documents. * See the attached detailed Office action for a list	nts have been received. nts have been received in Appliority documents have been re au (PCT Rule 17.2(a)).	olication No eceived in this National	Stage		
Attachment(s)	_				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	Paper No(s)/l	nmary (PTO-413) Mail Date rmal Patent Application (PTC	D-152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 11 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ono et al (5,555,004) in view of Liu (JP411259228)

Regarding claims 1, Ono et al teaches the aspects of the claimed invention, a force sensor measuring applied forces, comprising: a first member (21); a second member (4A), wherein the first member is positioned nearby to the second member (fig. 5); a flexure (17), the flexure connecting the first member and the second member (fig. 5), wherein the flexure supports the first member with respect to the second member and allows the first member to move relative to the second member substantially along two axes (col. 7, lines 50-59). Ono et al fails to teach a readout mechanism measuring the displacement of the first member relative to the second member substantially along each of the two axes, wherein the applied forces are determined from the displacement of the first member relative to the second member. Liu teaches optical sensors (42 and 44). It would have been obvious to one skilled in the art at the time that the invention was made to have placed the sensors of Liu in the control device of Ono et al for the

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purpose of detecting the rotation of the shafts and generate the corresponding signals to ensure that the shaft device is inoperable condition.

Regarding claim 2, Ono et al teaches the first member comprises an inner member and the second member comprises an outer member (fig. 5)

Regarding claim 3, Ono et al fails to teach the readout mechanism comprises an optical electronic device. Liu teaches the sensors, which detect the rotation of the shafts and generate the corresponding displacement signals is optical (42, 44). It would have been obvious to one of ordinary skill in the art at the time that the invention was made to have used the optical sensors of Liu in the control device of Ono et al for the purpose of detecting the rotation of the shafts and generate the corresponding signals to ensure that the shaft device is inoperable condition.

Regarding claims 4, Ono et al fails to teach the readout mechanism comprising an inductive readout device. Liu teaches a joystick with optical sensors, which are inductive (42, 44). It would have been obvious to one skilled in the art at the time that the invention was made to have used the sensors of Liu in the device of Ono et al for the purpose of detecting direction and magnitude of force applied to an arm in order to eliminate an inaccurate measurement caused by the damage of a variable resistance due to frequent use of a joy stick handle (abstract)

Regarding claims 5 and 6, Ono et al teach a graspable handle (20), the graspable handle is integrally formed with the first member (21) and (fig. 5)

Regarding claim 11, Ono et al teaches the flexure comprises a plastic material (col. 7, lines 23-25)

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Regarding claim 27, Ono teaches a first member comprising a handle (20)

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Allowable Subject Matter

2. Claims 7-10 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 13-19 are allowed.

Response to Arguments

3. Applicant's arguments with respect to claims 1-6,11,12 and 27 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jewel V Thompson whose telephone number is 571-272-2189. The examiner can normally be reached on 7-4:30, off alternate Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Jawel V. Jhompson

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800